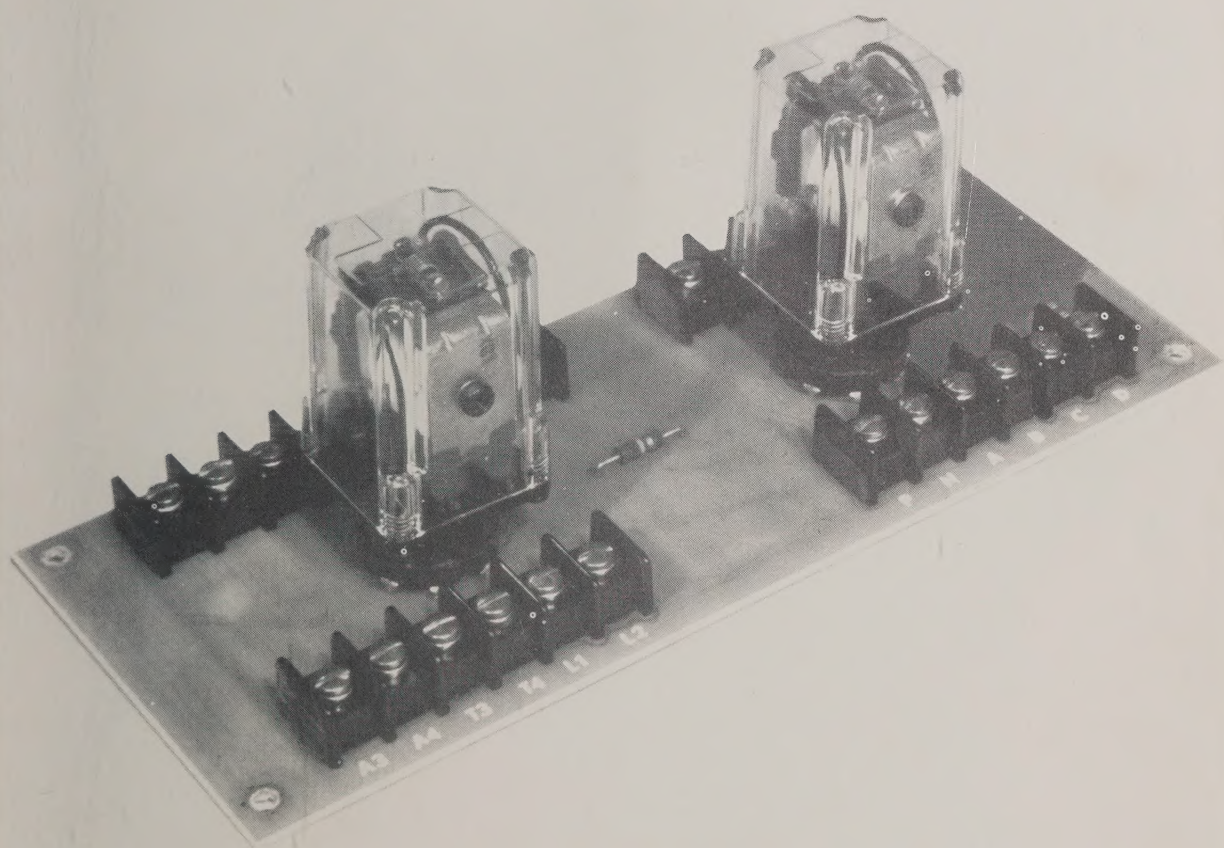


RT-100



INSTALLATION
OPERATION
MAINTENANCE
MANUAL

ENGINEERING ASSISTANCE/RETURN AUTHORIZATION PROCEDURE

Should you encounter any problems in the proper functioning of your equipment, please call our Customer Service Department at (509) 926-6277. The Customer Service Representative will aid you in obtaining the information required to properly troubleshoot your system over the telephone.

Should it be determined that repairs and/or adjustments at your location are not feasible, you will be given a return authorization (R-) number by which our Receiving Department will be able to properly identify the item(s) being returned. The R- number must be clearly marked on the box(es) being returned, as well as on all documents related to the authorized return. Replacement and/or repair is subject to review by Monaco Enterprises, Inc., and shall be done in accordance with the information provided in the Warranty Section.

Equipment not under warranty will be checked by Monaco Enterprises, Inc., and an estimate of repairs will be given the customer. The customer will then be requested to complete a purchase order to cover the cost of repairs.

When inspection and testing reveals that equipment appears to be damaged by physical abuse, Customer Service will notify the customer that the unit was physically abused and that repairs (if possible) will be at their expense. The customer will then be notified to prepare a purchase order to cover the cost of the repairs.

INSTALLATION - OPERATION - MAINTENANCE
MANUAL

MODEL RT-100
REMOTE TRANSMITTER
SUPERVISORY INTERFACE PANEL ASSEMBLY

RT-100-6	P/N	750-100-00	6 VDC
RT-100-12	P/N	750-200-00	12 VDC
RT-100-24	P/N	750-300-00	24 VDC
RT-100-120	P/N	750-500-00	120 VAC

Applicable also to RT-100 PCB ASSEMBLY:

P/N	175-004-00	6 VDC
P/N	175-004-01	12 VDC
P/N	175-004-02	24 VDC
P/N	175-004-03	120 VAC

Reprinted August, 1984



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SECTION I
INTRODUCTION

1.1 PRODUCT DESCRIPTION

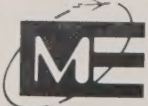
The Model RT-100 REMOTE TRANSMITTER SUPERVISORY INTERFACE PANEL is a U.L. Listed interfacing unit for use with various Control Panels as an ALARM and/or TROUBLE reporting unit. It is available in four voltage versions: 6 VDC, 12 VDC, 24 VDC, and 120 VAC. The main electronics is housed on the RT-100 PCB ASSEMBLY, also available in four versions.

1.2 U.L. LISTING

The RT-100 REMOTE TRANSMITTER SUPERVISORY INTERFACE PANEL is Underwriters' Laboratories Listed. (See Figure 1.1).

UOXX	April 7, 1981
Control Units Accessories, System	
MONACO ENTERPRISES INC, SPOKANE WA 99214	S1458 (N)
Models 406, 4012, 4024, 40120 end-of-line supervisory relay modules for use with this Listee's Listed 40 and 41 series smoke detectors. Provided in 6, 12, 24 v, dc and 120 v, ac ratings. Model RT100-6, -12, -24, -120 interface unit.	
EAST 14820 SPRAGUE AVE P O BOX 14129	
LOOK FOR LISTING MARK ON PRODUCT	
Replaces S1458 dated April 27, 1979.	
534684001	Underwriters Laboratories Inc.®
	B11/0063700

U.L. LISTING
FIGURE 1.1



1.3 PCB ASSEMBLY

All of the RT-100 electronics are mounted on the RT-100 PCB ASSEMBLY. All external connections are made to the four (4) terminal blocks. The PCB Assembly is easily removable for servicing or inspection from the enclosure by loosening and removing four (4) mounting screws. See Section 4.4 and Figure 4.1.

1.4 FUNCTIONAL DESCRIPTION

The Model RT-100 provides a 15 kilohm resistance between Terminals L1 and L2 on Terminal Block TB3 in the NORMAL MODE. See RT-100 Wiring Diagram (Figure 2.1) and Schematic Diagram in this Manual. With the application of a voltage (within the ranges specified below) between Terminals A1 and A2 on TB1, the RT-100 will provide a resistance of less than 1 ohm between Terminals L1 and L2 (ALARM MODE). With the application of a voltage (within the ranges specified below) between Terminals T1 and T2 on TB1, the RT-100 will provide an open (greater than 10 megohms) between Terminals L1 and L2 (TROUBLE MODE).

Terminals A3 and A4 on TB3 are Auxiliary Alarm Outputs.
Terminals T3 and T4 on TB3 are Auxiliary Trouble Outputs.

1.5 SPECIFICATIONS

SWITCHED AUXILIARY
OUTPUTS CURRENT:

5 amperes maximum

ALARM (K2) AND
TROUBLE (K1) RELAY

ELECTRICAL SPECIFICATIONS:

RT-100 MODEL	VOLTAGE (VOLTS)	CURRENT (AMPERES)	FREQUENCY (HZ)
RT-100-6	6 DC	0.187	DC
RT-100-12	12 DC	0.109	DC
RT-100-24	24 DC	0.051	DC
RT-100-120	120 AC	0.058	60

SUPERVISORY
RESISTANCE:

15 kilohm, $\pm$ 5%, 0.5 watts

VOLTAGE OPERATING
RANGE (ALL MODELS):

85 - 110% of rated voltage



SECTION II

INSTALLATION

2.1 LOCATION OF EQUIPMENT

This unit must be mounted adjacent to the Control Panel which provides the voltage input, with all interconnecting wiring installed in conduit (see Section 2.3).

2.2 ENCLOSURE MOUNTING

Remove the RT-100 PCB Assembly from the Enclosure before mounting the Enclosure on the wall (see Section 4.4). Mount the Enclosure securely using lag bolts or screws through the back side holes.

2.3 CONDUIT

All wiring to the RT-100 must be encased in conduit. Determine the conduit locations on the Enclosure and make the necessary conduit knock-out holes ONLY in the top or bottom of the Enclosure. Vacuum out all metal particles from the bottom of the enclosure.

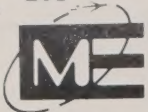
2.4 WIRING

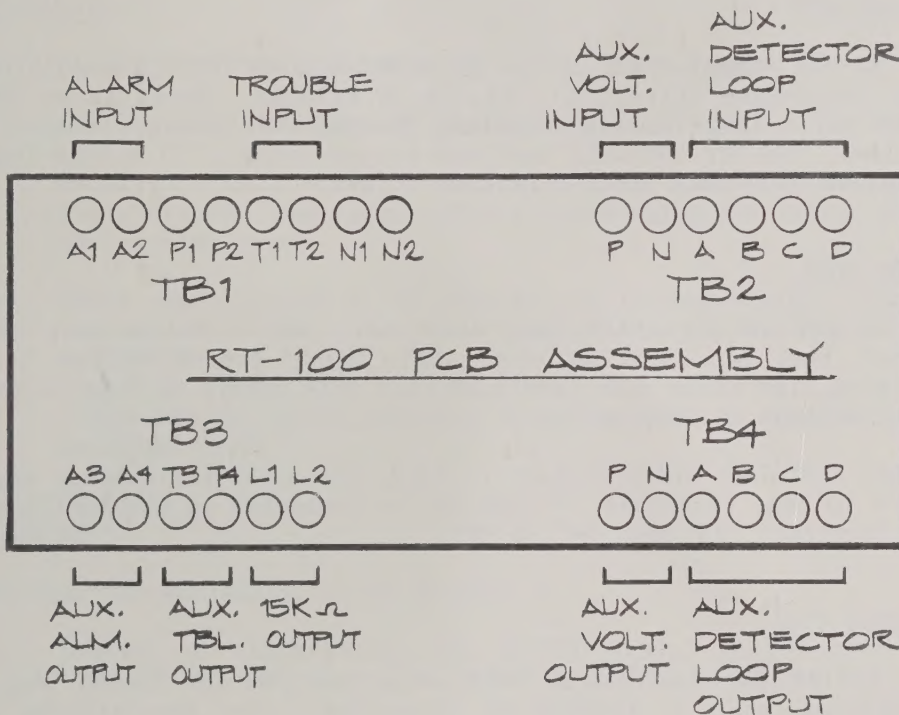
2.4.1 Electrical Codes

All wiring shall be installed in accordance with the latest edition of the National Electric Code, the applicable National Fire Protection Association Installation Standards, and local authorities having jurisdiction.

2.4.2 Installation Wiring

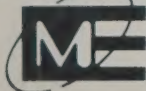
Wire to the RT-100 according to Figure 2.1, the RT-100 Wiring Diagram, and the Typical Fire Alarm Equipment Drawing (Figure 4.1).





RT-100 WIRING DIAGRAM

FIGURE 2.1



SECTION III

OPERATION

3.1 NORMAL MODE

The RT-100 NORMAL MODE is the NO ALARM and NO TROUBLE condition. The loop resistance output (L1, L2) is 15 Kilohms. There is no AUXILIARY ALARM OUT voltage and no AUXILIARY TROUBLE OUT voltage if this feature is used. The RT-100 will continue to supervise a 15 Kilohm loop until an ALARM or TROUBLE input condition occurs.

3.2 ALARM MODE

The RT-100 in its ALARM MODE will short the 15 Kilohm loop output to signal that an ALARM is occurring. Since the RT-100 is not self-latching, the alarm mode condition will only remain as long as the alarm input voltage is supplied.

If the AUXILIARY ALARM feature is used, the auxiliary voltage input supplied to TB2, Terminals "P" and "N" is connected to the AUXILIARY ALARM OUT Terminals "A3" and "A4" on TB3.

3.3 TROUBLE MODE

The RT-100 in its TROUBLE MODE will open the 15 Kilohm loop output signifying that a TROUBLE is occurring. The non-latching feature explained in Section 3.2 also applies here.

If the AUXILIARY TROUBLE feature is used, the auxiliary voltage input supplied to TB2, Terminals "P" and "N" is connected to the AUXILIARY TROUBLE OUT Terminals, Terminals "T3" and "T4" on TB3.



SECTION IV

MAINTENANCE

4.1 CIRCUITRY

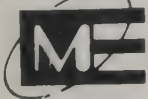
If problems occur with the RT-100, do the following:

1. Check wiring connections to and from the RT-100.
2. Substitute the two (2) relays with each other (K1 and K2). Since these are the same type, often interchanging the relays may isolate the problem cause.
3. Check the resistance of the RT-100 output wiring. It must not exceed 2,000 OHMS. The total loop resistance (resistor and wiring) may not exceed 17,750 OHMS.
4. Check the 15 Kilohm resistor accuracy with an ohmmeter. Resistor is rated at 5%.

4.2 TESTING

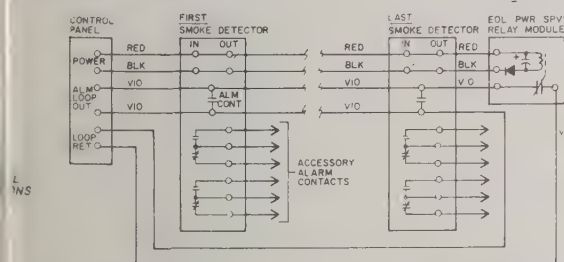
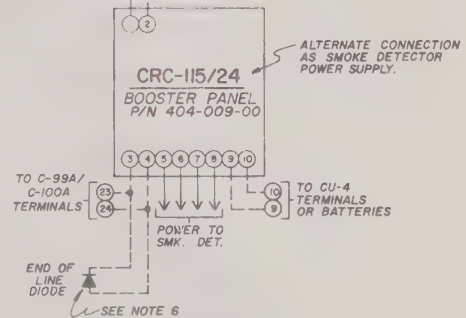
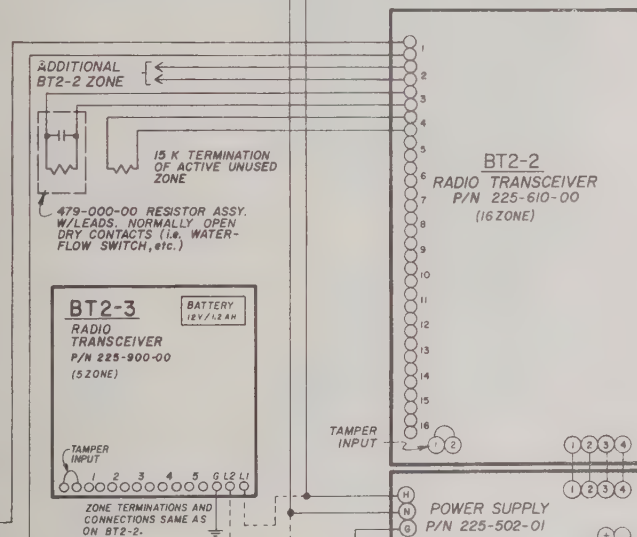
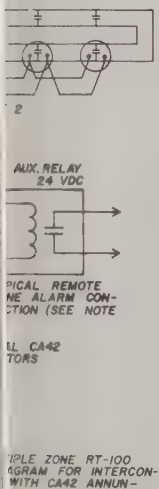
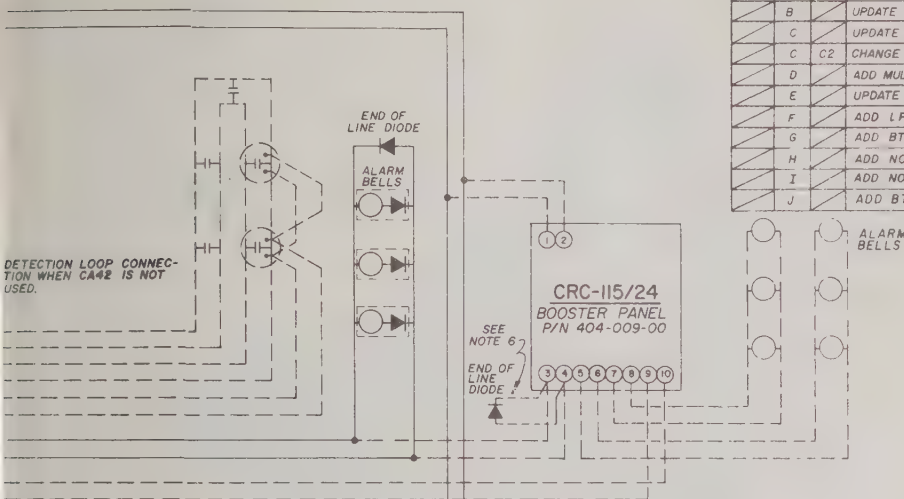
To test the operation of the RT-100:

1. Connect an ohmmeter (on the RX1000 scale) to Terminals "L1" and "L2" of TB3 (any wiring to these terminals should be disconnected).
2. The normal reading should be between 14,250 ohms and 15,750 ohms (15,000 ohms with a 5% tolerance).
3. Place the Fire Alarm Control Panel in the ALARM mode.
4. The resistance reading should drop to zero (0).
5. Reset the Control Panel.
6. Place the Control Panel in the TROUBLE mode.
7. The resistance reading should be infinity.
8. Restore the Control Panel to the NORMAL condition.

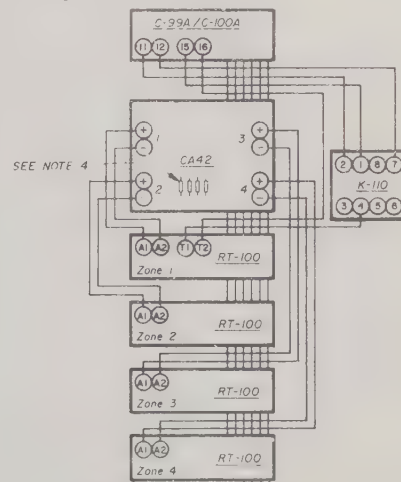




REVISIONS				DATE	APPROVED
ECO	REV	ZONE	DESCRIPTION		
	A		FORMAL RELEASE	10/9/80	Sala
	B		UPDATE TRT & CRC-115/24 SYMBOLS	01/08/81	Sala
	C		UPDATE C-99A/C-100A TERMINALS	4/16/81	Sala
	C	C2	CHANGE TRANSMITTER TO TRANSCEIVER	6/19/81	Sala
	D		ADD MULTIPLE ZONE RT-100 WIRING DIAGRAM	6/11/81	Sala
	E		UPDATE BT2-1 PS & CS-579 WIRING	9/29/81	Sala
	F		ADD LPF PCB ASSEMBLY	12/3/81	Sala
	G		ADD BT2-2 TRANSCEIVER	3-3-82	Sala
	H		ADD NOTE 6	9-5-82	Sala
	I		ADD NOTE 7, UPDATE CU-4 & ATT-1 S.D. WRG	10/9/83	Sala
	J		ADD BT2-3, ET-1	10/12/84	Sala



TYPICAL SMOKE DETECTOR WIRING FOR DOUBLE LOOP PANEL



MULTIPLE ZONE RT-100 WIRING DIAGRAM

TO C-99A/C-100A TERMINALS		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		STANDARD		MONACO ENTERPRISES, INC. SPOKANE, WASHINGTON 99214	
FRACTIONS ±1/64		DECIMALS XX ± XXX ±		ANGLES ±1°		FILE	
MATERIAL		APPROVALS		DATE		INTERCONNECTION DRAWING:	
FINISH		DRAWN R. STAVANJA		10-2-80		TYPICAL FIRE ALARM EQUIPMENT	
NEXT ASSY		CHECKED Sala		10/9/80		SIZE	
USED ON		APPROVED Sala		10/9/80		DRAWING NO. X-700-011-00-D	
APPLICATION		OUTSTANDING ECO(S)		SCALE NONE		REV J	
DO NOT SCALE DRAWING				SHEET 1 OF 1			

4.3 SPARE PARTS

The recommended spare parts for maintenance and minimum down time are listed.

In cases where an absolute minimum down time is a priority, it is recommended that a spare PCB ASSEMBLY of the voltage version used be obtained.

A. PCB Assembly Spare Parts (see Figure 4.2):

ITEM	REF. DES.*	PART NUMBER	DESCRIPTION	FOR MODEL			
				6V	12V	24V	120V
1	--	175-004-00	Assy,PCB:RT-100-6	X			
2	--	175-004-01	Assy,PCB:RT-100-12		X		
3	--	175-004-02	Assy,PCB:RT-100-24			X	
4	--	175-004-03	Assy,PCB:RT-100-120				X
5**	K1,K2	451-500-00	Relay:DPDT,115VAC,10A Contacts				X
6**	K1,K2	452-101-00	Relay:DPDT,6VDC,10A Contacts	X			
7**	K1,K2	452-200-00	Relay:DPDT,12VDC,10A Contacts		X		
8**	K1,K2	452-300-00	Relay:DPDT,24VDC,10A Contacts			X	
9	R1	472-153-00	Resistor,Carbon:15 K-OHM,0.5W,5%	X	X	X	X
10	--	643-000-00	Socket:Octal,PC MT	X	X	X	X
11	TB2-TB4	646-005-00	Term Block:6 POS,PC MT	X	X	X	X
12	TB1	646-007-00	Term Block:8 POS,PC MT	X	X	X	X

B. Miscellaneous Spare Parts (for all versions):

ITEM	REF. DES.*	PART NUMBER	DESCRIPTION
13	---	001-008-00	Manual,I-O-M:RT-100
14	---	081-010-00	Enclosure:Met,12.5X9X4.75"
15	---	281-406-15	Screw:PHM,P-SS,#6-32X0.375"
16	---	287-006-95	Washer,Flat:SS,#6
17	---	287-306-95	Lockwasher:Int Tooth,SS,#6
18	---	288-214-00	Spacer:Met,Hex,1",#6-32

NOTE: Replacement parts must be identical, both in manufacturer's brand and electrical characteristics.

* REFERENCE DESIGNATION

** SPARE PARTS RECOMMENDED AS THE MINIMUM ACCEPTABLE



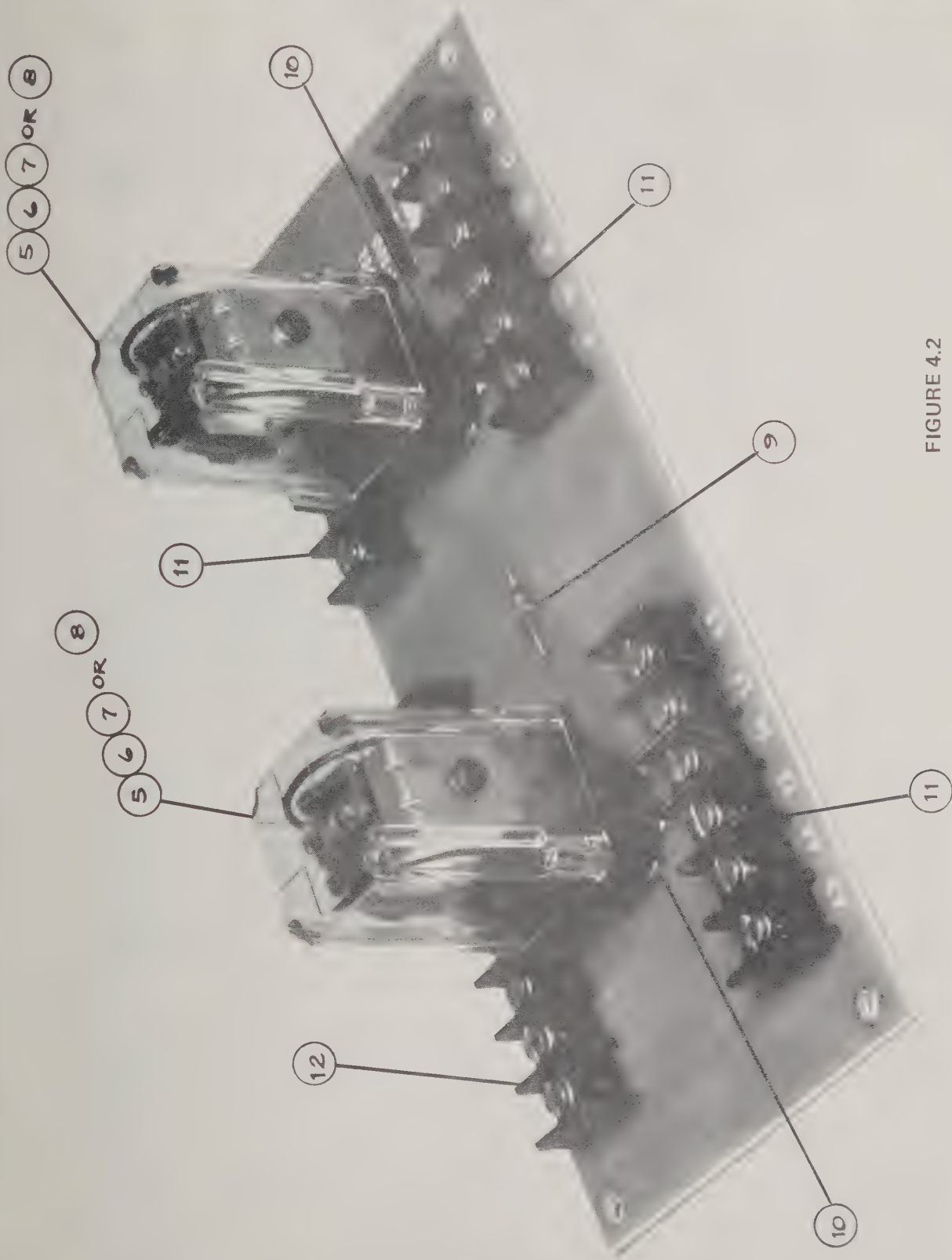


FIGURE 4.2

4.4 DISASSEMBLY

To remove the PCB Assembly from the Enclosure, first remove all power to the unit. Remove and mark any wiring connected to the unit. Then remove the four (4) machine screws and washers holding the PCB Assembly to the mounting spacers or rails. Gently remove the PCB Assembly from the Enclosure.

4.5 REASSEMBLY

To reinstall the PCB Assembly in the Enclosure, mount the PCB Assembly to the spacers or rails using the four (4) machine screws and washers. Reconnect any wiring; check for wiring errors; reapply power and check operation.

4.6 MAINTENANCE DRAWINGS

Both Figure 4.1 (Typical Fire Alarm Equipment Interconnection Drawing) and Figure 4.3 (RT-100 PCB Assembly Schematic Diagram) may prove useful in troubleshooting RT-100 related problems. Figure 4.1 shows a typical fire alarm installation where the RT-100 interfaces the C-99A/C-100A family of Fire Alarm Control Panels to the BT2-2 Radio Transceiver. A Multiple Zone RT-100 Configuration is also shown whereby all four expansion zones of a CA42 Annunciator report individually through RT-100's. This drawing is typical for a 24 volt system; part numbers and model references are 24 volt related. But this drawing is also applicable to 12 VDC wiring by disregarding 24 volt part numbers and model references.



**MONACO ENTERPRISES, INC.
COMMERCIAL PRICE LIST
TERMS & CONDITIONS**

1. **MINIMUM ORDER** -- Monaco Enterprises, Inc. reserves the right to refuse any order totaling less than \$25.00.
2. **ORDERING ADDRESS:** Monaco Enterprises, Inc.
Post Office Box 14129
Spokane, Washington 99214
3. **PAYMENT ADDRESS:** Monaco Enterprises
Post Office Box 14129
Spokane, Washington 99214
4. **ORDERING INFORMATION** -- Contact the Customer Service Department at the home office for placement of orders. Telephone: (509) 926-6277.
5. **DELIVERY**
 - A. All prices noted herein are F.O.B. Spokane, Washington.
 - B. Delivery will be made in the most economical manner. If special shipping requirements must be met, please advise in writing when placing order.
6. **DELIVERY TIME** -- Most items are available from stock or production within 30 days after receipt of order; however, products and/or systems with special requirements (such as frequency assignment) require up to 90 days for delivery. Firm delivery dates can be confirmed at time of order.
7. **TERMS** -- A 1% 10 Days/Net 30 Days prompt payment discount applies to all orders. A 1% per month service charge is levied on delinquent amounts.
8. **TERMS OF PAYMENT** -- Credit terms are available on approved credit. Shipments to new accounts are sent on a cash on delivery basis pending credit approval. Unless indicated, prices do not include any taxes or other governmental charges on production, sale, or shipments of goods and these shall be added if and when applicable.
9. **POINT OF PRODUCTION** -- All systems described therein are U.S. End Products, and are assembled in the United States, in Spokane, Washington.
10. **WARRANTY** -- See warranty section.
11. **EXPORT PACKING OR SPECIAL HANDLING CHARGES** -- Our products are standard commercial packaged. Additional charges will be made for any export packaging or special handling services.
12. **RETURN OF GOODS** -- To return merchandise for credit, written authorization from Monaco Enterprises, Inc., must be obtained prior to the actual return of the merchandise. Returned goods are subject to a 25% restocking charge and only prepaid shipments will be accepted. Contact the Customer Service Department for return authorization.
13. **CANCELLATIONS, CHANGES, OR SUBSTITUTIONS** -- Provided the work has been performed on standard catalog items, cancellations, changes, or substitutions will be permitted without additional charges. Cancellations of special ordered goods will be based on actual costs incurred as of the date of cancellation; including overhead and profit charges, subject to a minimum of 25% of the special order item price.
14. **DAMAGED GOODS** -- Monaco Enterprises, Inc., will make every effort to see that all goods are packaged to ensure that no damage in transit will be incurred. However, Monaco Enterprises, Inc., is not responsible for any damages incurred while the goods are in transit. Should any damages be found upon receipt of the goods, a claim for loss or damage must be filed with the carrier.
15. **SERVICE POINT** -- Contact the Customer Service Department at the home office for the closest service point. Telephone (509) 926-6277.
16. **PRICES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE** -- If you have questions regarding pricing of any item, contact the Customer Service Department at the home office. Telephone (509) 926-6277.
17. **SYSTEM DESIGN** -- Monaco offers its customers engineering and design services in order to provide a system that best meets their needs. Our Design and Development Engineers continually work to improve and update its designs to give you the latest and most reliable products.



MONACO ENTERPRISES, INC.
INTERNATIONAL ACCOUNT TERMS

Conditions set forth on the reverse side of this document apply to International accounts with the terms below applicable to International accounts in lieu of those described in paragraph seven (7) of the Commercial Price List Terms and Conditions.

1. Placement of all orders shall be subject to an irrevocable letter of credit payable to:

MONACO ENTERPRISES, INC.
East 14820 Sprague Avenue
P.O. Box 14129
Spokane, Washington 99214
U.S.A.

Advised and payable through our bank of account:

Seattle-First National Bank
International Banking Department
P.O. Box 3586
Seattle, Washington 98124
U.S.A.

2. Letter of credit must stipulate drafts at sight drawn on Seattle-First National Bank.
3. Letter of credit shall be valid for 180 days minimum (depending on issuing country import laws), allowing a minimum of 60 days validity beyond anticipated shipping date for negotiation of documents.
4. The amount of the letter of credit shall be expressed on the basis of "about U.S. \$ _____" to allow for difference of 10% more or less in quantity, \$ value, and/or transportation cost.
5. Shipment will be made from any North American port or airport.
6. Monaco Enterprises reserves the right to make substitutions and/or partial shipments.



Monaco Enterprises INC.

SPOKANE, WASHINGTON 99214

LIMITED PRODUCT WARRANTY AND LIMITATION OF LIABILITY

Products sold by Monaco Enterprises, Inc. (hereinafter called "the Company") are warranted only as stated below:

Subject to the exceptions and upon the conditions specified below, the Company agrees to correct, either by repair, or at its election by replacement, free of charge, F.O.B. Spokane, Washington, any defect of material or workmanship which develops within 12 months from the date of delivery to the customer but in no event more than fourteen (14) months after date of shipment, whichever is earlier. The buyer must notify the Company of any defect immediately after discovery, and must give satisfactory proof of defect or, upon request, return the defective item to the Company in Spokane, Washington, at his expense for examination.

In addition to such notification and proof the following are additional exceptions and conditions:

1. If any expendable component or accessory incorporated in or used in connection with products manufactured by the Company, such as batteries, visual indicators and fusing devices, or any other expendable material fails to give reasonable service for a reasonable period of time, the Company will, at its election, replace or repair such component or accessory. What constitutes a reasonable period of time shall be determined solely by the Company in its absolute discretion after the Company is in possession of all the facts concerning operating conditions and other pertinent factors and after such component or accessory has been returned to the Company, transportation prepaid.
2. The Company makes no warranty concerning components or accessories not manufactured by it. However, in the event of the failure of any component or accessory not manufactured by the Company, the Company will give reasonable assistance to the buyer in seeking an adjustment from the manufacturer of the item in question based on the manufacturer's own warranty, if any.
3. The Company shall be released from all obligations under its warranty in the event its products or parts have been subject to accident, alteration, abuse or misuse, or which have not been operated and maintained in a normal manner.
4. Except as stated above, the Company makes no warranty, expressed or implied (either in fact or by operation of law), statutory or otherwise; all warranties not expressly stated herein being expressly waived by the buyer.
5. The Company expressly disclaims any liability to its customers, dealers, distributors and representatives, and to users of its products and to any other person or persons for special or consequential damages of any kind and from any cause whatsoever arising out of or in any way connected with the manufacture, sale, handling, repair, maintenance or replacement of or arising out of or in any way connected with the use of said products.
6. Representations and warranties made by any person, including dealers, distributors and representatives of the Company, which are inconsistent or in conflict with the terms of this warranty (including but not limited to the limitations of the liability of the Company as set forth above), shall not be binding upon the Company unless reduced to writing and approved by an officer of the Company.
7. This warranty shall be construed in accordance with and governed by the laws of the State of Washington.
8. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.



D

AUX.
DETECTOR
LOOP
INPUT

AUX. VOLT.
INPUT

C

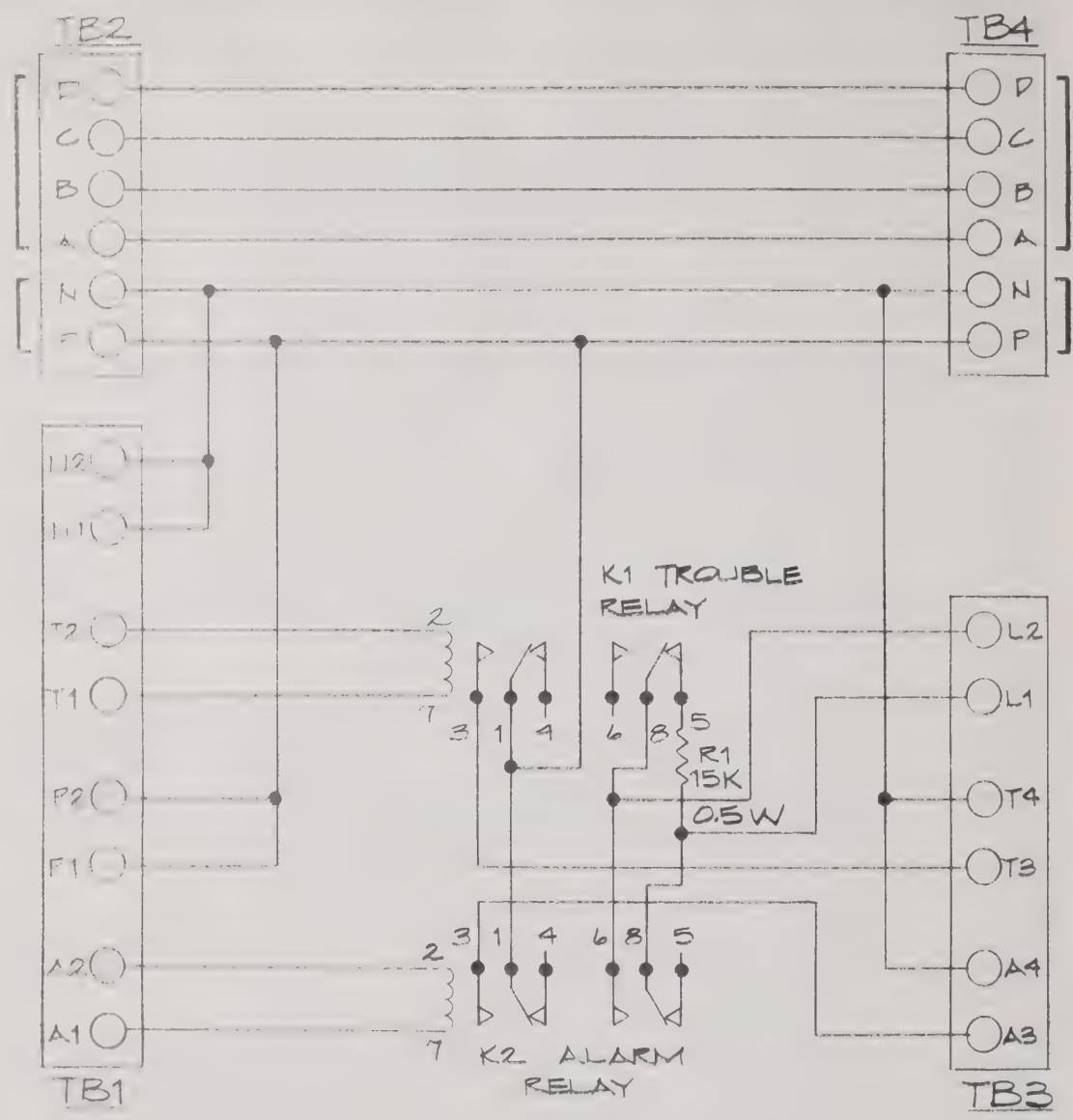
TROUBLE
INPUT

→

B

ALARM
INPUT

A



OPERATIONAL
C-ART

MODE	ENERGIZED RELAYS	L1-L2 RESISTANCE
NORMAL	—	15 K OHM
ALARM	K2	< 1 OHM
TRouble	K1	> 10 MEG OHM

001-008-00	RT-100 MANUAL
750-100-00	RT-100-6 SUPV INTFC PNL
750-200-00	RT-100-12 SUPV INTFC PNL
750-300-00	RT-100-24 SUPV INTFC PNL
750-500-00	RT-100-120 SUPV INTFC PNL
NEXT ASSY	USED ON
APPLICATION	

REVISIONS				
ECO	REV	ZONE	DESCRIPTION	DATE
	B		REDRAWN	2-6-81
				Sala

AUX.
DETECTOR
LOOP
OUTPUT

AUX. VOLT.
OUTPUT

5K Ω
OUTPUT

AUX. TROUBLE
OUTPUT

AUX. ALARM
OUTPUT

VOLTAGE CHART

PART NUMBER	VOLTAGE
175-004-00	6VDC
175-004-01	12VDC
175-004-02	24VDC
175-004-03	120VAC

REFERENCE DESIGNATION CHART

LAST	NOT USED
K2	
R1	
TB4	

FIGURE 4.3

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm \frac{1}{16}$.XX $\pm .02$ $\pm 1^\circ$.XXX $\pm .010$ MATERIAL FINISH DO NOT SCALE DRAWING	JOB NO. STANDARD		MONACO ENTERPRISES, INC. SPOKANE, WASHINGTON 99214	
	APPROVALS	DATE	TITLE:	
	DRAWN STAVANJA	2-4-81	SCHEMATIC DIAGRAM:	
	CHECKED Sala	2-6-81	RT-100 PCB ASSEMBLY	
	APPROVED Sala	2-6-81		
OUTSTANDING ECO(S)		SIZE B	DRAWING NO. S-175-004-XX-B	REV B
		P/N 175-004-XX		
		SCALE NONE	SHEET 1 OF 1	

NOTES

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